

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

1-54. (Cancelled)

55. (Currently Amended) A computer-implemented method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:
receiving an indication of a number of features of said subject multi-dimensional database to be identified and an indication of a feature identification technique that finds points or regions of interest in the subject multi-dimensional database;
performing feature identification to identify the indicated number of features using the indicated feature identification technique; and
creating an index for the subject multi-dimensional database using the identified number of features, wherein creating the index comprises storing deviation values for each of the identified number of features, wherein creating the index comprises creating a multi-dimensional database that is derived from the subject multi-dimensional database.

56. (Cancelled)

57. (Previously Presented) The method of claim 55, wherein receiving the number of features to be identified comprises receiving a parameter value.

58. (Previously Presented) The method of claim 55, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

59. (Previously Presented) The method of claim 58, further comprising creating the index using the list of multi-dimensional points.

60. (Cancelled)

61-65. (Cancelled)

66. (Cancelled)

67-71. (Cancelled)

72. (Cancelled)

73. (Previously Presented) A computer-implemented method of accessing a subject multi-dimensional database stored on a data store connected to a computer, comprising:
receiving an indication of a number of features of said subject multi-dimensional database to be identified;
performing feature identification to identify the indicated number of features; and
creating an index for the subject multi-dimensional database using the identified number of features, wherein the index comprises a second multi-dimensional database that is derived from the subject multi-dimensional database, wherein creating the index comprises storing deviation values for each of the identified number of features.

74. (Previously Presented) The method of claim 73, wherein receiving the number of features to be identified comprises receiving a parameter value.

75. (Previously Presented) The method of claim 73, wherein performing feature identification comprises generating an ordered list of multi-dimensional points.

76. (Previously Presented) The method of claim 75, further comprising creating the index using the list of multi-dimensional points.

77. (Cancelled)

78-81. (Cancelled)

82. (Cancelled)

83-86. (Cancelled)

87. (Cancelled)